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1 [Manageability, availability, and performance in porcupine: a highly scalable, cluster-based mail service](#)

Yasushi Saito, Brian N. Bershad, Henry M. Levy

August 2000 **ACM Transactions on Computer Systems (TOCS)**, Volume 18 Issue 3

Full text available: pdf(2.52 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper describes the motivation, design and performance of Porcupine, a scalable mail server. The goal of Porcupine is to provide a highly available and scalable electronic mail service using a large cluster of commodity PCs. We designed Porcupine to be easy to manage by emphasizing dynamic load balancing, automatic configuration, and graceful degradation in the presence of failures. Key to the system's manageability, availability, and performance is that sessions, data, and underlying ...

Keywords: cluster, distributed systems, email, group membership protocol, load balancing, replication

2 [Manageability, availability and performance in Porcupine: a highly scalable, cluster-based mail service](#)

Yasushi Saito, Brian N. Bershad, Henry M. Levy

December 1999 **ACM SIGOPS Operating Systems Review , Proceedings of the seventeenth ACM symposium on Operating systems principles**, Volume 33 Issue 5

Full text available: pdf(1.62 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes the motivation, design, and performance of Porcupine, a scalable mail server. The goal of Porcupine is to provide a highly available and scalable electronic mail service using a large cluster of commodity PCs. We designed Porcupine to be easy to manage by emphasizing dynamic load balancing, automatic configuration, and graceful degradation in the presence of failures. Key to the system's manageability, availability, and performance is that sessions, data, and underlying serv ...

3 [Protecting web servers from distributed denial of service attacks](#)

Frank Kargl, Joern Maier, Michael Weber

April 2001 **Proceedings of the tenth international conference on World Wide Web**


Full text available: pdf(390.23 KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: DDoS, Linux, class based routing, distributed denial of service attacks, web server security

4 Managing server load in global memory systems

Geoffrey M. Voelker, Hervé A. Jamrozik, Mary K. Vernon, Henry M. Levy, Edward D. Lazowska
June 1997 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1997 ACM SIGMETRICS international conference on Measurement and modeling of computer systems**, Volume 25 Issue 1

Full text available:  [pdf\(2.26 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

New high-speed switched networks have reduced the latency of network page transfers significantly below that of local disk. This trend has led to the development of systems that use network-wide memory, or *global* memory, as a cache for virtual memory pages or file blocks. A crucial issue in the implementation of these global memory systems is the selection of the target nodes to receive replaced pages. Current systems use various forms of an approximate global LRU algorithm for making the ...

5 A load cluster management system using SNMP and web

Myung-Sup Kim, Mi-Joung Choi, James W. Hong
November 2002 **International Journal of Network Management**, Volume 12 Issue 6

Full text available:  [pdf\(355.47 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Clustered servers for Internet service is a popular solution to cope with the explosive increase in client requests. The high probability of service failure in cluster servers make the cluster management system necessary to provide high availability and convenient administrator control. In this paper, we present the design and implementation of a load cluster management system (LCMS) based on SNMP and Web technology. Our LCMS implementation has been deployed on a commercial ultra-dense server.

6 Scheduling optimization for resource-intensive Web requests on server clusters

Huican Zhu, Ben Smith, Tao Yang
June 1999 **Proceedings of the eleventh annual ACM symposium on Parallel algorithms and architectures**

Full text available:  [pdf\(1.19 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

7 On balancing the load in a clustered web farm

Joel L. Wolf, Philip S. Yu
November 2001 **ACM Transactions on Internet Technology (TOIT)**, Volume 1 Issue 2

Full text available:  [pdf\(612.40 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this article we propose a novel, yet practical, scheme which attempts to optimally balance the load on the servers of a clustered Web farm. The goal in solving this performance problem is to achieve minimal average response time for customer requests, and thus ultimately achieve maximal customer throughput. The article decouples the overall problem into two related but distinct mathematical subproblems, one static and one dynamic. We believe this natural decoupling is one of the major contrib ...

Keywords: Clustered Web farms, combinatorial optimization, load balancing, resource allocation problems

8 Data partitioning and load balancing in parallel disk systems

Peter Scheuermann, Gerhard Weikum, Peter Zabback


February 1998 **The VLDB Journal — The International Journal on Very Large Data****Bases**, Volume 7 Issue 1Full text available:  [pdf\(310.27 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Parallel disk systems provide opportunities for exploiting I/O parallelism in two possible ways, namely via inter-request and intra-request parallelism. In this paper, we discuss the main issues in performance tuning of such systems, namely striping and load balancing, and show their relationship to response time and throughput. We outline the main components of an intelligent, self-reliant file system that aims to optimize striping by taking into account the requirements of the applications, an ...

Keywords: Data allocation, Disk cooling, File striping, Load balancing, Parallel disk systems, Performance tuning

9 Optimal static load balancing in distributed computer systems

Asser N. Tantawi, Don Towsley

April 1985 **Journal of the ACM (JACM)**, Volume 32 Issue 2Full text available:  [pdf\(1.38 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

A distributed computer system that consists of a set of heterogeneous host computers connected in an arbitrary fashion by a communications network is considered. A general model is developed for such a distributed computer system, in which the host computers and the communications network are represented by product-form queuing networks. In this model, a job may be either processed at the host to which it arrives or transferred to another host. In the latter case, a transferred job incurs a ...

10 Application-layer anycasting: a server selection architecture and use in a replicated Web service

Ellen W. Zegura, Mostafa H. Ammar, Zongming Fei, Samrat Bhattacharjee

August 2000 **IEEE/ACM Transactions on Networking (TON)**, Volume 8 Issue 4Full text available:  [pdf\(207.85 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: anycasting, replication, server selection

11 Internet applications: Load balancing and locality in range-queriable data structures

James Aspnes, Jonathan Kirsch, Arvind Krishnamurthy


July 2004 **Proceedings of the twenty-third annual ACM symposium on Principles of distributed computing**Full text available:  [pdf\(236.00 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We describe a load-balancing mechanism for assigning elements to servers in a distributed data structure that supports range queries. The mechanism ensures both load-balancing with respect to an arbitrary load measure specified by the user and geographical locality, assigning elements with similar keys to the same server. Though our mechanism is specifically designed to improve the performance of skip graphs, it can be adapted to provide deterministic, locality-preserving load-balancing to any d ...

Keywords: overlay networks, peer-to-peer systems

12 Optimizing data aggregation for cluster-based internet services

Lingkun Chu, Hong Tang, Tao Yang, Kai Shen

June 2003 **ACM SIGPLAN Notices , Proceedings of the ninth ACM SIGPLAN symposium on Principles and practice of parallel programming**, Volume 38 Issue 10Full text available:  pdf(275.38 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

Large-scale cluster-based Internet services often host partitioned datasets to provide incremental scalability. The aggregation of results produced from multiple partitions is a fundamental building block for the delivery of these services. This paper presents the design and implementation of a programming primitive -- Data Aggregation Call (DAC) -- to exploit partition parallelism for cluster-based Internet services. A DAC request specifies a local processing operator and a global reduction operation ...

Keywords: cluster-based network services, fault tolerance, load-adaptive tree formation, response time, scalable data aggregation, throughput

13 Load balancing in distributed workflow management system

Li-jie Jin, Fabio Casati, Mehmet Sayal, Ming-Chien Shan

March 2001 **Proceedings of the 2001 ACM symposium on Applied computing**Full text available:  pdf(264.32 KB) Additional Information: [full citation](#), [references](#), [index terms](#)

Keywords: business process, load balancing, load index, workflow

14 Session 10B: Consistent load balancing via spread minimization

Robert Kleinberg, Tom Leighton

June 2003 **Proceedings of the thirty-fifth annual ACM symposium on Theory of computing**Full text available:  pdf(224.59 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Motivated by applications to web caching and other distributed server architectures, we analyze load balancing algorithms from the standpoint of *spread*, which measures the number of different assignments an item receives across multiple iterations of the algorithm on varying load distributions. Minimizing spread while balancing load is important in order to make efficient use of server resources such as memory and in order to minimize service latency. In the paper, we consider both on-line ...

Keywords: load balancing, on-line algorithms, randomized algorithms

15 Load-balanced location management for cellular mobile systems using quorums and dynamic hashing

Ravi Prakash, Zygmunt Haas, Mukesh Singhal

September 2001 **Wireless Networks**, Volume 7 Issue 5Full text available:  pdf(282.87 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper presents a new distributed location management strategy for cellular mobile systems. Its salient features are fast location update and query, load balancing among location servers, and scalability. The strategy employs dynamic hashing techniques and quorums to manage location update and query operations. The proposed strategy does not


require a home location register (HLR) to be associated with each mobile node. Location updates and queries for a mobile node are multicast to subsets o ...

Keywords: distributed location management, dynamic hashing, location independent numbering, mobile computing, quorum systems, tries

16 Fairness and load balancing: Coordinated load balancing, handoff/cell-site selection, and scheduling in multi-cell packet data systems

Aimin Sang, Xiaodong Wang, Mohammad Madihian, Richard D. Gitlin

September 2004 **Proceedings of the 10th annual international conference on Mobile computing and networking**

Full text available:  pdf(312.56 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


We investigate a wireless system of multiple cells, each having a downlink shared channel in support of high-speed packet data services. In practice, such a system consists of hierarchically organized entities including a central server, Base Stations (BSs), and Mobile Stations (MSs). Our goal is to improve global resource utilization and reduce regional congestion given asymmetric arrivals and departures of mobile users. For this purpose, we propose a scalable cross-layer framework to coordinat ...

Keywords: HDR, HSDPA, cell-site selection, handoff, load balancing, multi-cell, opportunistic scheduling

17 DNS and naming: The design and implementation of a next generation name service for the internet

Venugopalan Ramasubramanian, Emin Gün Sirer

August 2004 **Proceedings of the 2004 conference on Applications, technologies, architectures, and protocols for computer communications**

Full text available:  pdf(472.93 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


Name services are critical for mapping logical resource names to physical resources in large-scale distributed systems. The Domain Name System (DNS) used on the Internet, however, is slow, vulnerable to denial of service attacks, and does not support fast updates. These problems stem fundamentally from the structure of the legacy DNS. This paper describes the design and implementation of the Cooperative Domain Name System (CoDoNS), a novel name service, which provides high lookup performance thro ...

Keywords: DNS, peer to peer, proactive caching

18 Dimensioning server access bandwidth and multicast routing in overlay networks

Sherlia Y. Shi, Jonathan S. Turner, Marcel Waldvogel

January 2001 **Proceedings of the 11th international workshop on Network and operating systems support for digital audio and video**

Full text available:  pdf(227.12 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Application-level multicast is a new mechanism for enabling multicast in the Internet. Driven by the fast growth of network audio/video streams, application-level multicast has become increasingly important for its efficiency of data delivery and its ability of providing value-added services to satisfy application specific requirements. From a network design perspective, application-level multicast differs drastically from traditional IP multicast in its network cost model and routing stra ...

19 Cluster-based scalable network services

Armando Fox, Steven D. Gribble, Yatin Chawathe, Eric A. Brewer, Paul Gauthier
October 1997 **ACM SIGOPS Operating Systems Review , Proceedings of the sixteenth
ACM symposium on Operating systems principles**, Volume 31 Issue 5

Full text available:  pdf(2.42 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

20 Load-balancing heuristics and process behavior

Will Leland, Teunis J. Ott

May 1986 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1986
ACM SIGMETRICS joint international conference on Computer performance
modelling, measurement and evaluation**, Volume 14 Issue 1

Full text available:  pdf(1.50 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


Dynamic load balancing in a system of loosely-coupled homogeneous processors may employ both judicious initial placement of processes and migration of existing processes to processors with fewer resident processes. In order to predict the possible benefits of these dynamic assignment techniques, we analyzed the behavior (CPU, disk, and memory use) of 9.5 million Unix* processes during normal use. The observed process behavior was then used to drive simulation studies of particular dynamic a ...

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Greg Eisenhauer, Karsten Schwan

August 1998 **Proceedings of the SIGMETRICS symposium on Parallel and distributed tools**

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Kashem, M.A.; Ganapathy, V.; Jasmon, G.B.;

Power System Technology, 2000. Proceedings. PowerCon 2000. International Conference on , Volume: 1 , 4-7 Dec. 2000
 Pages:293 - 298 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(464 KB\)\]](#) IEEE CNF

2 Real-time optimization of distributed load balancing

Haddad, E.;

Parallel and Distributed Real-Time Systems, 1994. Proceedings of the Second Workshop on , 28-29 April 1994
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3 A load balancing and control scheme to eliminate feedback problem: industrial appliances

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4 Network reconfiguration for load balancing in distribution networks

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Generation, Transmission and Distribution, IEE Proceedings- , Volume: 146 , 16, Nov. 1999

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5 The optimal switching operation of distribution systems with stochastic load models by object-oriented programming

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8 Interpreting stale load information

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9 Load balancing on a hypercube

Jinwoon Woo; Sahni, S.;

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10 Efficient, proximity-aware load balancing for structured P2P systems

Yingwu Zhu; Yiming Hu;

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11 Interpreting stale load information*Dahlin, M.;*

Parallel and Distributed Systems, IEEE Transactions on , Volume: 11 , Issue: 10 , Oct. 2000

Pages:1033 - 1047

[\[Abstract\]](#) [\[PDF Full-Text \(392 KB\)\]](#) IEEE JNL**12 Tree-based parallel load-balancing methods for solution-adaptive finite element graphs on distributed memory multicomputers***Ching-Jung Liao; Yeh-Ching Chung;*

Parallel and Distributed Systems, IEEE Transactions on , Volume: 10 , Issue: 4 , April 1999

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[\[Abstract\]](#) [\[PDF Full-Text \(140 KB\)\]](#) IEEE CNF**14 Application of binary integer programming for load transfer of distribution systems***Chen, C.S.; Kang, M.S.; Hwang, J.C.; Huang, C.W.;*

Power System Technology, 2000. Proceedings. PowerCon 2000. International Conference on , Volume: 1 , 4-7 Dec. 2000

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Electrical and Electronic Technology, 2001. TENCON. Proceedings of IEEE Regional 10 International Conference on , Volume: 1 , 19-22 Aug. 2001

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Information Theory, 2002. Proceedings. 2002 IEEE International Symposium on , 2002

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2 Analysis of a novel active filter for balancing and reactive power compensation*Singh, B.; Anuradha; Kothari, D.P.;*

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3 High precision load measurement by two freedom dynamic crane sc*Lisheng Chen; Aoshima, N.;*

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4 Dynamic digital control schemes for three-phase UPS inverters*Uys, J.J.; Beukes, H.J.;*

Power Electronics Specialist, 2003. PESC '03. IEEE 34th Annual Conference on , Volume: 3 , 15-19 June 2003

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Kit Po Wong; Buon Sing Lau;

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Chen, D.K.C.; Yuang-Shung Lee; Chi-Jui Wu;

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Irland, M.;

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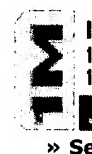
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